

Potomac Shores Water Tank Project

September 13, 2017

SA Project Manager: David L. Guerra, P.E.

Design Engineer: Hazen and Sawyer



Service Authority
Exceptional Water Service

Agenda

- ◆ Purpose of the Project
- ◆ Project History
- ◆ Preliminary Design Parameters
- ◆ Anticipated Project Duration
- ◆ Next Steps
- ◆ Contacts
- ◆ Q&A

Purpose of the Project

- ◆ Improve Service and Reliability to the Community
 - ◆ Provides additional storage volume to help maintain system pressures during peak demands
 - ◆ Provides fire protection storage
 - ◆ Provides emergency storage in the event of a main break or power outage
 - ◆ Improves operational efficiency

Project Location

- Project is located in the Potomac Shores area, off River Heritage Boulevard
- This location provides:
 - A site near the customers to be served in the Dumfries and Potomac Shores areas
 - A high ground elevation to minimize cost and optimize hydraulic performance
 - An existing, proffered easement

Project History

- Tank requirement identified in the late 1990's with the County's development of the Cherry Hill Sector Plan
- Tank first shown on the 2003 PWC Comprehensive Plan Map and continues to be shown on the current map
- Tank introduced in the Service Authority's 2005 Capital Improvement Program
- Site easement, access road and water main provided by the Developer per proffer agreements
- Preliminary Engineering Report (PER) to evaluate tank siting alternatives completed in October 2016
- First Community Outreach Meeting held on February 13, 2017

Preliminary Design Parameters

◆ Style

- ◆ Hydropillar – steel bowl with steel fluted column base (most common style used by the Service Authority)
- ◆ Site will incorporate the Service Authority's standard security features of fencing and lighting

◆ Size & Dimensions

- ◆ 2 million gallon capacity
- ◆ Upper bowl diameter about 100 feet
- ◆ Base diameter about 75 feet
- ◆ Tank height approximately 135 feet

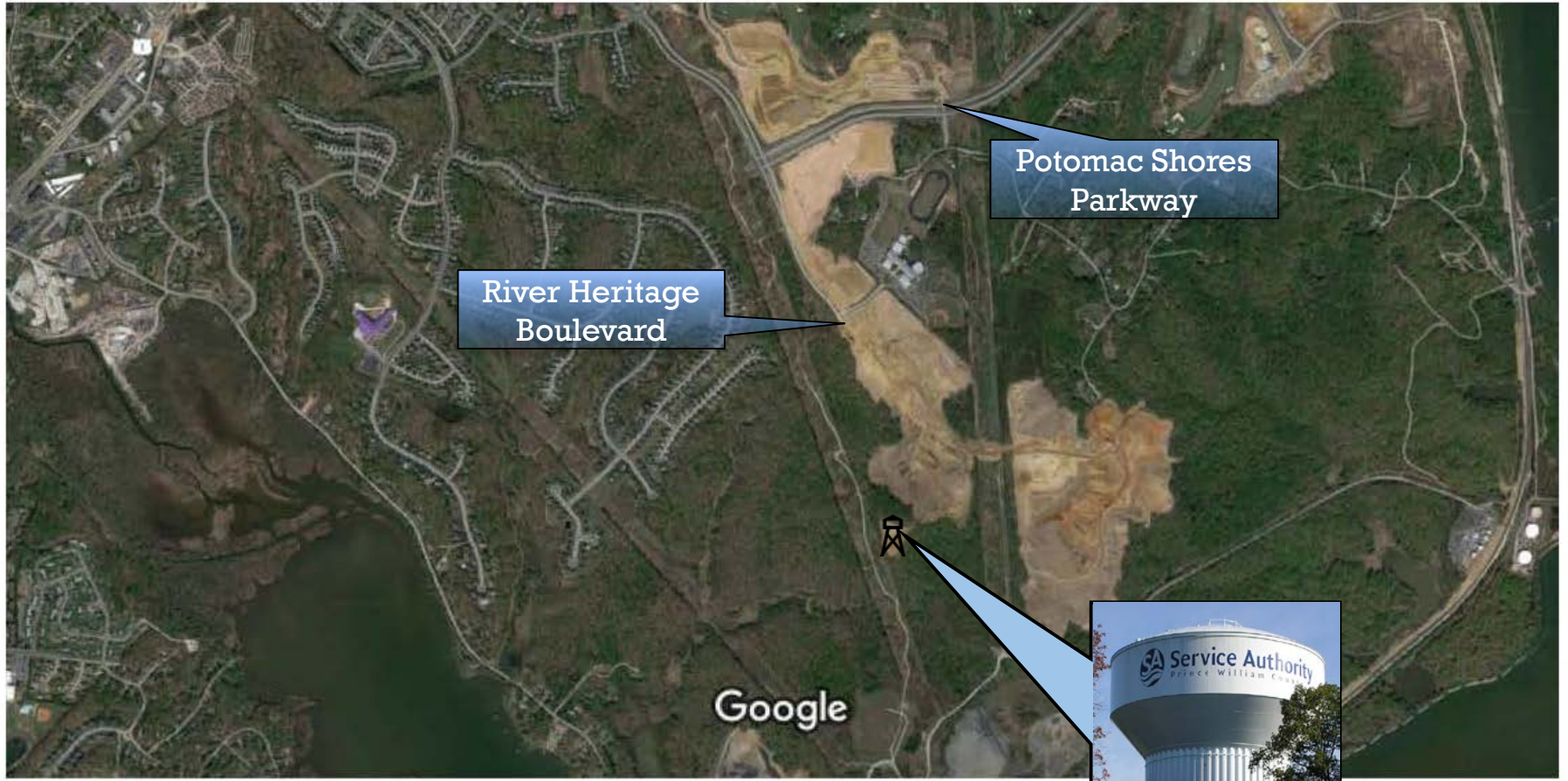
Service Authority's 2 MG Dominion Valley Tank



Service Authority's 2 MG Gainesville Tank



Overall Aerial View



Site Aerial View



View of Proposed Tank from River Heritage Boulevard and Dominican Drive

River Heritage Boulevard

Tank Site

Access Road

View of Proposed Tank from River Heritage Boulevard and Dominican Drive



Anticipated Project Schedule

- ◆ Design and Permitting:
 - May 2017 – March 2019
- ◆ Community Outreach: Ongoing
- ◆ PWC Public Facility Review Process:
 - July 2017 – November 2017
- ◆ Start of Construction:
 - Fall 2019
- ◆ Construction Phase:
 - 18 to 24 Months

Next Steps

- ◆ Final Design
- ◆ PWC Public Facility Review (PFR) Process
 - County sends out notification of the Planning Commission Meeting to area residents
 - Public can provide input at the Planning Commission Meeting
 - Anticipated date: November 1, 2017
- ◆ Design continues to meet PFR approval requirements

Contacts

Kathy Bentz

Community Relations and Outreach Manager

Phone: 703.335.8944

Email: potomacshoreshank@pwcsa.org

Project Website:

<https://www.pwcsa.org/potomac-shores-tank>

Q & A

Questions?